CHRISTOV, D. [Khristov, D.]; NENOV, N.; KARAIVANOV, S.

Azeotropic dehydration, with methyl ethyl ketone, of the crystal hydrates in the oxalic and citric acids. Doklady BAN 15 no.8: 841-844 '62.

1. Lehrstuhl für Organishch-Chemische Technologie an der Universität, Sofia. Vorgelegt von Akademiemitglied G. Rankoff [Rankov, G.].

的经验**的**基础的研究,在这种是是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,

KHRISTOV, D.; KARAIVANOV, St.; NENOV, N.

Gradual azeotropic dehydration of the hexahydrates of nickel chloride and cobaltous chloride. Godishnik khim 55 no.3:33-48 '60/61 (publ. '62).

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Preparation of anhydrous chlorides through the interaction of thionyl chloride with certain metallic salts. Godishnik khim 55 no.3:49-66 '60/61 (publ. 62).

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Nils Bor. Priroda Bulg 12 no. 1: 109-113 Ja-F '63.

KARAIVANOVA, M. - RADENKOVA

Atomic energy in service to agriculture. p. 33.

Vol.10, no. 11, Nov. 1955 KOOPERATIVNO ZEMEDELIE Sofiya, Bulgabia

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# KARAIVANOVA, Sp.

Scientific Session on Preschool Education. Spisanie BAN 5 no.3:71-75 '60. (EEAI 10:5)

(Bulgaria--Kindergarten)

## KARAJOSIFIDIS, Kostas

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Effect of insulin and largactil on blood sugar in experimental hypothermia. Acta physiol. polon. 7 no.4:469-476 1956.

1. Z Zakladu Farmakologii Pomorskiej A.M. w Szczecinie. Kierownik: z-ca prof. dr. M. Mazur.

(HYPOTHERMIA, exper.

eff. of chlorpromazine & insulin on blood sugar in rabbits (Pol))

(CHLORPROMAZINE, eff.

on blood sugar in exper. hypothermia in rabbits (Pol))

(INSULIN, eff.

same)

(BLOOD SUGAR, eff. of drugs on chlorpromazine & insulin in exper. hypothermia in rabbits (Pol))
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BOZEK, Jozef; KARAJOSIFIDES, Kostas; SLIWINGKA, Halina

Role of lipotropic factors in the regulation of disorders of vitamin A metabolism. Polskie tygod. lek. 12 no.44:1681-1684 4 Nov 57.

1. (Z Kliniki Pediatrycznej Oddzialu Chirurgii Dzieciecej Pomorskiej Akademii Medycznej w Szczecinie; kierownik Kliniki: prof. dr med. B. Gornicki, kierownik Oddzialu: doc. dr med. E. Drescher i z Centralnego Laboratorium Panstw. Szpitala Klin. w Szczecinie; kierownik: lek. H. Sliwinska) Adres: Szczecin, ul. Lukasiewicza 3/4.

(VITAMIN A DEFICIENCY, exper.

ethyl ether-induced liver depletion, eff. of methionine & vitamin B12 (Pol))

(ETHER, ETHYL, eff.

exper. liver vitamin A depletion, eff. of methionine & vitamin Bl2 (Pol))

(METHIONINE, eff.

on liver vitamin A depletion induced by ethyl ether, with vitamin B12 (Pol))

(VITAMIN Bl2, eff.

on liver vitamin  ${\bf A}$  depletion induced by ethyl ether, with methionine (Pol))

KARAJOSIFIDIS, KesTAS BOZKOWA, Krystyna; BOGUSZEWSKA-DABRYSOWA, Nina; KARAJOSIFIDIS, Kostas

Determination of proteclytic ensymes in the duodenum & feces in children. Pediat. polska 32 no.9:1019-1026 Sept 57.

1. Z Kliniki Pediatrycznej Pom. Akad. Med. w Szczecinie Kierownik: prof. dr med. B. Gornicki i z Laboratorium Centralnego Panstwowego Szpitala Klinicznego w Szczecinie.

(DUODENUM, metab. proteases in child., determ, (Pol)) same) (PROTEASES, determ. in duodenum & feces in child. (Pol))

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Pneumoconioses in Yugoslavia; silicosis in the Bor mine. Glasm. hig. inst., Beogr. 3 no.1-2:1-23 Jan-June 54.

(SILICOSIS, statist.
in Yugosl.)

DANILOVIC, V.; KARAJOVIC, D.; LJALJEVIC, M.; POPOVIC, D.; SPUZIC, I...

Diagnosis of allergy among bakers and millers. Acta med. iugosl. 13 no.3:294-300 159.

1. Centre clinique pour les maladies profesionnelles, Faculte de Medecine de Belgrade.

(ALLERGY etiol.)

(ALLERGY et 101.) (FLOUR) (OCCUPATIONAL DISMASES et 101.)

THE BEAUTIFIED OF THE PROPERTY OF THE PROPERTY

ILIC.S.; KARAJOVIC.D.; PERISIC.S.; CVETKOVIC-KRISTL,D.

Cutaneous hypersensitivity to coment and to chromates in cement industry workers. Acta med. iugosl. 13 no.3:332-338 159.

1. Clinique Dermatologique et Centre des maladies professionneles de la Faculte de Medecine de Belgrade.

(DERMATITIS VENERATA etiol.) (CHROMATES toxicol.)

KARAJOVIC, D.; DANILOVIC, V.; VERBIC, N.; DORDEVIC, V.; POPOVIC, D.; MILOSAVLJEVIC, Z.; DORDEVIC, S.; SIAVKOVIC, V.; SAVIC, D.; MALESEVIC, L.

Studies on allergy in cement industry workers. Acta med. iugosl. 13 no.3:339-345 \$59.

1. Klinisches Zentrum für professionale Krankheiten der Medizinischen Fakultat in Belgrad.

(ALLERGY etiol.)

(OCCUPATIONAL DISEASES etiol.)

TUCOSLAVIA

DE D. RANGOVIC, B. FANOV, M. JEREMIC, Dr Ing D. DJURIC, Min/eralogict/ D. OFROLIC and Fiz/jicki/ hem/ficar/ (Physical Chemist) D. GVOZNAMOVIC, Institute of Occupational Medicine (Institut za higijenu rada) Belgrade.

"Protectics Workers from Radiction Sources in Uranium Mines and in Work with Radioactive Materials."

Belgrade, Higt Jene, Vol 14. No 2-2-4, 1962; pr 154-168.

Atstract: Presentation and discussion of data accumulated during the 4 farral activity of the Department for Protection from Rediction (Odeljenje za radiolosku zastitu) of the Institute of Occupational Medicine of the Peoples' Republic of Serbia (Natharodna Republika) Sybija:) Methods for monitoring exposure, radioactive levels in water, dir. dose under and above-ground (from mines Kalna, Gabrovnica, Gorenja Vac.) hemograms of 94 minets and 142 workers (95 men) in uranium vachnology; discussion of main problems and dangers, remedies advocated limited or in effect. Five tables, 2 photographs, 5 charts-diagrams; ib Mestern and 4 Yugoslav references.

1/1

28

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720530001-3" Prevention of (chronic) cardiopulmonary insufficiency. Srpski arm. celok. lek. 91 no.12:1203-1211 D '63.

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720530001-3

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Diagnostic problems in occupational asthma. Med. glas. 18 no.3: 76-79 Mr-Ap 164.

1. Institut za medicinu rada Socijalisticke Republike Srbijo u Beogradu (Direktor: prof. dr. D. Karajovic).

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1. Institut za medicinu rada Socijalisticke Republike Srbije, Beograd.

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So: Monthly List of East European Accessions, (EEAL), IC, Vol. 4, No. 4, April 1955, Uncl..

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TECHNICAL tasks of local housing and construction authorities, p. 145.

EPITESUGYI SZEMLE. Budapest, Hungary. No. 5, 1959.

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# KARAJZ, Lajos, dr.

Current questions of regulating the type design. Epites szemle 6 no.6:165-168 '62.

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KARAJZ, Lajos, dr., foeloado

Role and system of technical specifications. Epites szemle 7 no. 10:307-312 164.

1. Ministry of Construction, Budapest.

The Scientific Association for Agricultural and Food Industries is 10 years old. Elelm ipar 13 no.2:39 F \*59.

1. Elelmezesi Ipari Dolgozok Szakszervezete fotitkara.

Food industry workers for the socialist reorganization of agriculture. Munka 8 no.10:31 0 '58.

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Experiences of the work of workshop councils in the food industry. Munka 8 no.7:7-8 Jl '58.

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GUEORGUIEV, K.; KARAKACHEV, M.

Contribution to the problem of juvenile hypertension. Cor Vasa 3 no.4: 264-272 161.

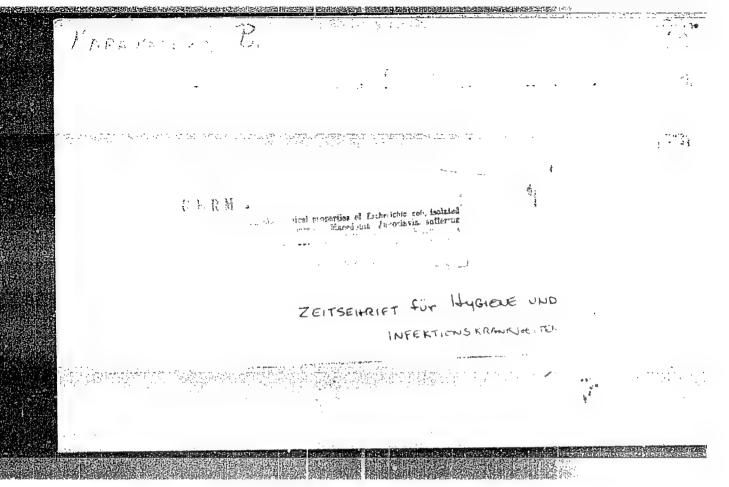
1. Institut Pedagogique de l'Academie des Sciences, Sofia.

(HYPERTENSION statistics)

Sports as an important part of trade union activity. Munka 14 no.10:2-3 0 '64.

1. Secretary, Central Council of Hungarian Trade Unions, Budapest, and Head, Editorial Board, "Munka."

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720530001-3



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Eticlogy of enterocolitis of infants and small children. Higijena, Beogr. 7 no.1-4:130-140 1955.

1. Mikrobioloski institut Med. fakulteta, Skoplje.
 (COLITIS, in inf. & child
 etiol. of enterocolitis (Ser))

**以这种结构中的第三人称形式 医加尔特特氏心丛 医心丛性神经 医水水水子 化特殊多种聚物的复数 安全的复数形式的复数形式的现在分词 医克里特氏病 医克里特氏病 医克里特氏病 医多子** 

KARAKASEVIC, Bogdan, Prof., dr.

Isolation of Salmonella from Vardar waters with membrane filters. Higijena, Beogr. 7 no.1-4:209-215 1955.

 Mikrobioloski institut Medicinskog fakulteta, Skoplje. (SALMONELLA

membrane filter isolation from water supply (Ser)) (WATER SUPPLY

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Bacterioscopic determination of Mycobacterium tuberculosis in cerebrospinal fluid, punctures, and in urine with the method of fluorescent microscopy and membrane filtration. Higijena, Beogr. 7 no.1-4:221-227 1955.

1. Mikrobioloski institut Medicinskog fakulteta, Skoplje.
(MYCOBACTERIUM TUBERCULOSIS, determ.
in CSF, punctures & urine, comparison of technics (Ser))

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Phosphatase test in differentiation of Micrococcus pyogenes from non-pathogenic types of micrococci. Higijena, Beogr. 7 no. 1-4:259-263 1955.

1. Mikrobioloski institut Medicinskog fakulteta, Skoplje.

(MICROCOCCUS PYOGENES,
differ. from non-pathogenic Micrococci, phosphatase
test comparative value (Ser))
(MICROCOCCI,

differ. of non-pathogenic types from Micrococcus pyogenes, phosphatase test, comparative value (Ser))

### KARAKASEVIC, B.; GAZIKALOVIC, Z.

Differentiation of Micrococcus pyogenes from non-pathogenic species of micrococci with phosphatase test. Higijena, Beogr. 8 no.4:233-239 1956.

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(PHOSPHATASE,
phosphatase test in differ. of Micrococcus pyogenes from
non-pathogen. micrococci (Ser))

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#### KARAKASEVIC, R.

TECHNOLOGY

KARAKASEVIC, R. "Kolins" or "Pi" filter. p. 353; Yugoslavantennas. p. 354.

Vol. 11, no. 12, Dec. 1957

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720530001-3

KARAKASEVIC, M., dipl. hem.; DACA, Kemal, dipl. hem.; BENCINA, Silva, ing.

Complexometric determination of lead in lead ores and their processing products. Kem ind 10 no.2:50-51 F '61.

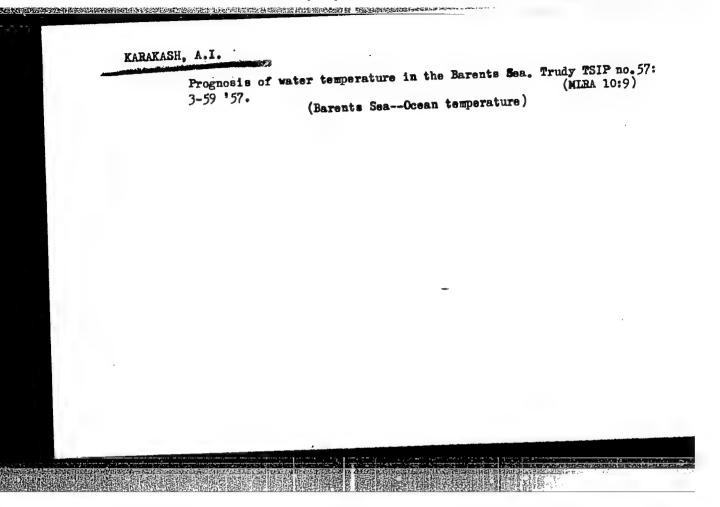
#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720530001-3

KARAKASEVICH, K.

Geographical problems of fruit growing in Csongrad County.

p. 79. (FOLDRAJZI ERTESITO) Vol. 6, no. 1, 1957 Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958



#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720530001-3

AUTHOR: Karakash, A. I. SOV/50-58-9-3/19

TITLE: The Forecast of the Position of the Ice Front in the

Barents Sea (Prognoz polozheniya kromki l'da na Barentsevom

more)

PERIODICAL: Meteorologiya i gidrologiya, 1958, Nr 9, pp. 16 - 21 (USSR)

ABSTRACT: Taking the Barents Sea as example the author shows how

the opinion on the interrelations of marine phenomena on the one hand and atmospheric phenomena on the other hand are formed in the course of a longer period. Two opinions are represented in a survey of publications

("efs 4,5,9): a) Glaciation of the sea and its conditions of temperature are mainly due to heat transfer by currents. b) According to the other point of view the main part is played by atmospheric phenomena. Although the later papers (Refs 3,8-10, 13) did not give any sufficiently proved forecasts which meet modern demand they were very important

forecasts which meet modern demand they were very important for the finding out of the conditions in the sea (just as the papers mentioned in Refs 3,5,7,9). It was possible

Card 1/4 to ascertain the basic and leading factors which determine

The Forecast of the Position of the Ice Front in the SOV/50-58-9-3/19
Barents Sea

the state of ice in the sea. Only after sufficient informations concerning the state of ice, temperature and salt content were obtained, it became possible to generalize the results and to work out methods for long-term forecasts of glaciation and the position of the ice front. The glaciation of the Barents Sea reaches its climax in April, then it is gradually reduced. The greatest shift to the North is reached from June to July, it is less intensive in May and August. During the warm season the density of the icecover on the entire sea is considerable and amounts to from 8-10 marks. Only in some years greater parts of free water may be observed. After having mentioned the four basic features of reference 6 the author analyzes them with respect to the Barents Sea and draws the conclusion that the losses of heat and the amounts of heat which are caused by the Atlantic current during autumn and winter determine more or less the condition of temperature and ice. The losses of heat which occur during this season are proportional to the difference between water and air temperature. They may therefore be determined

Card 2/4

The Forecast of the Position of the Ice Front in the Barents Sea

sov/50-58-9-3/19

without computations of the heat balance. It is true, however, that for the determination of the relative losses of heat the air temperature can only be used in the extreme north-western part of the sea (Ref 6). The heat transported by the Atlantic current into the Barents Sea is proportional to the velocity of the current. On the other hand it depends on the intensity of air circulation over the North Atlantic and over the Barents Sea and is characterized by a relatively high coefficient of correlation (0,80). Based upon this phenomenon the author set up equations by means of which it is possible to compute in advance the average glaciation of the sea per month. Since they have the same parameters one single equation can be derived for the computation of the monthly and seasonal glaciation:

 $\Delta s = (-0.23t - 0.26 z^{0.5} + 21.35)k$ , with  $\Delta s$  denoting the anomaly of glaciation, t - the air temperature from September to February, z - an index which characterizes the cyclones in the Barents Sea during the same months

Card 3/4

THE REPORT OF THE PROPERTY OF

The Forecast of the Position of the Ice Front in the SOV/50-58-9-3/19

as well as in the North Atlantic, k - a coefficient which amounts to 1,8 in the mentioned season and in April, 2,0 in June and 2,6 in July-August. The total coefficient of correlation is equal to 0,87. Thus, by means of air temperature and the index of intensity of the cyclones in autumn and winter the glaciation and the position of the ice front may be computed for 1 to 5 months in advance. There are 1 figure and 13 references, 7 of which are Soviet.

Card 4/4

#### KARAKASH, A.I.

Forecasting the beginning of the spring and fall changes in the ice situation in the southeastern part of the Barents Sea. Trudy TSIP no.76:3-14 '58. (MIRA 12:2) (Barents Sea--Ice)

#### "APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720530001-3

L 41760-66 EWT(1) GW

(N)

SOURCE CODE: UR/2546/65/000/142/0013/0015

AUTHOR: Karakash, A. I.

ACC NR: AT6006567

24

ORG: none

TITLE: Ice forecasting in non-Arctic seas

SOURCE: Moscow. Tsentral'nyy institut prognozov. Trudy, no. 142, 1965. Morskiye prognozy i raschety (Marine forecasts and calculations); materialy Vsesoyuznogo soveshchaniya, noyabr' 1963 g., 13-15

TOPIC TAGS: sea ice, long range weather forecasting

ABSTRACT: Various methods of ice forecasting are enumerated and suggestions for improving the organization, collection, and evaluation of the basic elements are given. Long range forecasting of ice-phase advance is based on the evaluation of such factors as air temperature, water temperature, the thickness and area of an ice cover, as well as atmospheric pressure and circulation. The author concludes that no single ice forecasting method can be used for the non-Arctic seas; and that ice forecasting should be based on the continuous observation of temperature, ice drift, ice thickness, current velocity, and atmospheric pressure. He also urges an increase in the number of buoy stations.

SUB CODE: 04.

04,08/

SUBM DATE: none

Card 1/1

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720530001-3

KARAKASH, A.I.

Ice forecasts on non-Arctis seas. Truly TSIP no.142:13-15 (65. (MIRA 18:10)

#### KARAKASH, A.I.

Some characteristics of hydrological conditions in the equatorial zone of the Atlantic Ocean. Meteor. i gidrol. no.12:22-26 D \*63. (MIRA 17:3)

1. TSentral'nyy institut prognozov.

数数据<mark>证据在1000的图式技术的</mark>处理技术是是是对于1000年的人工的企业的企业,并且1000年的,1000年的,1000年的,1000年的,1000年的,1000年的

#### KARAKASH, D.F.

Planning dispensary care for the rural population. Vrach. delo no. 3:114-115 Mr '61. (MIRA 14:4)

GROMOV, A.S., prof., doktor med.nauk, otv.red.; EOFSKAYA, Z.A., dotsent, red.; GORITSKAYA, V.V., dotsent, red.; KARAKASH, K.I., nauchnyy sotrudnik, red.; BADAYKV, D.A., tekhn.fed.

[Problems in the immunology, microbiology, and spidemiology of intestinal infections] Voprosy immunologii, mikrobiologii i spidemiologii kishechnykh infektsii. Dnepropetrovsk, 1959. (MIRA 14:2)

1. Dnepropetrovskiy nauchno-iseledovatel skiy institut epidemiologii, mikrobiologii i gigiyeny im. N.F.Gameleya. 2. Direktor Dnepropetrovskogo nauchno-iseledovatel skogo instituta epidemiologii, mikrobiologii i gigiyeny im. N.F.Gameleya (for Gromov). (INTESTIMES--DISRASES)

SPIVAK, G.V.; NIKOLENKO, V.F.; CHERNOMORDIK, A.B.; KARAKASH, R.I.

Studies on the antimicrobial effects of certain antibiotics on the whooping cough bacillus. Antibiotiki 6 no.4:350-352 Ap !61.

(MIRA 14:5)

1. Dnepropetrovskiy nauchno-issledovatel skiy institut epidemiologii, mikrobiologii i gigiyeny imeni N.F.Gamalei.

(ANTIBIOTICS) (HEMOPHILUS PERTUSSIS)

NIKOLENKO, V.F.; SPIVAK, G.V.; KARAKASH, R.I.; LEVINA, G.V.

中心。但你就是这些知识证明的是我的我们的<mark>是是我们的对对的,那么是</mark>是这种心态,我们可以可以是这么知识,但是我们对于我们认为的我们是是我们是是我们对对我们是是我们

Effect of antibiotics on the rate of elimination of the disease pathogen from patients with whooping cough. Vop.okh.mat.i det. 7 no.4:44-46 Ap '62. (MTRA 15:11)

1. Iz Dnepropetrovskogo nauchno-issledovatel'skogo instituta epidemiologii, mikrobiologii i gigiyeny.

(WHOOPING COUGH) (ANTIBIOTICS)

36765 s/081/62/000/001/059/067 B162/B101

11

Vaynshtok, V. V., Kartinin, B. N., Karakash, S. I., Avchina,

TITLE:

Investigation of lithium greases thickened with soaps of

natural and synthetic acids

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 1, 1962, 448, abstract 1M171 (Tr. Mosk. in-t neftekhim. i gaz. prom-sti, no. 32,

1960, 11 - 26)

TEXT: It is established that the cooling methods used in the production of Li greases do not make it possible to control the process of crystallization of the thickener and lead to the production of low-quality products with a polydisperse structure. Greases thickened with technical stearate of Li, obtained by isothermic crystallization at 130°C possess optimum properties and are characterized by a structure formed of elementary particles of uniform shape and size. High-quality greases can be produced with Li-soaps of technical 12-hydroxystearic acid, and also with Li-soaps of synthetic C<sub>10</sub> - C<sub>16</sub> and C<sub>10</sub> = C<sub>21</sub> carboxylic acids, the

Card 1/2

Investigation of lithium greases...

S/081/62/000/001/059/067 B162/B101

greatest thickening capacity being found in Li-soap of C10 - C16 acids. [Abstracter's note: Complete translation.]

Card 2/2

BO

## APPROVED FOR RELEASE: 06/13/2000 SOURCEA-REP867,0951/38/00077395329901293"

AUTHOR: Vaynshtok, V. V.; Karakash, S. I.; Levento, R. A.; Kras kovskaya, M. I.

ORG: <u>linscow Institute of Petrochemical and Gas Industry im. I. M. Gubkin</u> (Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti)

TITLE: Synthetic fatty acids as raw material for lithium greases!

25

SOURCE: Neftepererabotka i neftekhimiya, no. 5, 1966, 25-29

TOPIC TAGS: fatty acid, grease, soap

ABSTRACT: The paper reviews the results of studies of synthetic fatty acids (SFA) as raw materials for the preparation of lithium greases. It is shown that such greases prepared from SFA have properties equivalent to those of similar greases prepared from stearic acid. The best raw material for the production of lithium greases are saponified fractions of thermally modified SFA, particularly C10-C16. It is necessary to organize their production in order to meet the needs of the lithium grease industry. As raw material for the production of lithium greases, SFA (particularly those obtained without thermal modification) have a number of disadvantages, which result from a high content of unoxidized paraffin, unsaponified oxygen-containing products, and products insoluble in petroleum ether. The development of methods for improving the quality of SFA is necessary. Orig. art. has: 4 tables.

SUB COFE: 11/ SUBM DATE: none/ ORIG REF: 007

Card 1/1ULR

UDC: 665.123.002.614:665.637.6.002.3

S/081/61/000/024/073/086 B151/B101

11.9400 also 1583 Vaynshtok, V. V., Kartinin, B. N., Karakash, S. I.

TITLE:

AUTHORS:

The effect of additions of lead soaps on the structure and

properties of lithium greases

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24, 1961, 471 - 472, abstract 24M97 (Tr. Mosk. in-t neftekhim. i gaz. prom-sti,

no. 32, 1960, 27 - 40)

TEXT: It has been found that the optimum temperature of crystallization of Li soap in the preparation of greases is 110°C. However, at this temperature it is not possible to prepare greases containing lead soaps, the crystallization of which proceeds below room temperatures. In these conditions it is possible to obtain lithium-lead greases. The addition of Pb stearate to greases thickened with Li stearate lowers their dropfall temperatures. The colloidal stability of the greases firstly drops (on the introduction of up to 20% Pb stearate, based on the soap thickener) and then improves again. The limiting shear stress drops at

Card 1/2

The effect of additions of ...

32337 S/081/61/000/024/073/086 B151/B101

first (up to 30% Pb stearate), then rises (40% Pb stearate) and then drops again (50% Pb stearate). The viscosity of Li greases shows little effect from the introduction of Pb stearate. The mechanical stability of the greases, evaluated by the change in residual limiting shear stress after their breakdown in a mixer using a penetrometer, drops with increasing concentration of lead soap. The preparation of Li greases containing more than 50% Pb stearate was not possible, although greases thickened with Pb stearate only were obtained. Examination with an electron microscope showed that the structure of the Li soap changes on the addition of Pb stearate to the grease. Similarly, the dimensions and form of the crystallites of the lead soap depend on the relative proportion of Li stearate present in the grease. Abstracter's note:

Card 2/2

5/081/61/000/024/074/086 B151/B101

11,9400 also 1583 AUTHORS:

Avchina, S. A., Karakash, S. I., Kartinin, B. N.

TITLE:

لسرة المساو

A method for evaluating the limiting shear stress of con-

sistent grease with an MHN -2(MNI-2) plastometer

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24, 1961, 472, abstract 24M98 (Tr. Mosk. in-t neftekhim. i gaz. prom-sti, no. 32, 1960, 141 -151)

TEXT: The operating unit of this apparatus for determining the limit of solidity (limiting shear stress), T nr, of soft greases consists of two

parallel immovable plates, between which there is located a third plate, joined to a balance beam. The grease under test is smeared between the plates, the surface of which is covered with grooves to prevent slippage at the walls. Onto the second balance beam is fixed a cup, into which water is poured at a fixed rate. As the water gradually fills the cup, the load on the plate increases and the plate moves in the grease. The construction of the apparatus allows one to find beforehand the amount

Card 1/2

A method for evaluating the ...

32338 \$/081/61/000/024/074/086 B151/B101

of displacement of the plate at which the contacts of a relay are closed and the filling of the cup with water ceases. The weight of the cup with the water at this moment corresponds to the load on the plate at which a given displacement of the plate in the grease takes place. By relating the load to the area of contact between the plate and the grease, To of the grease can be calculated. The magnitude of the path of displacement of the plate is chosen by 30% - 40% higher than the limiting value of the elastic deformations (found by preliminary experiments). For Li and Ca greases this value is usually 0.1 - 0.12 mm, and determinations for the measurement of To is + 10 - 18% of the mean.

Abstracter's note: Complete translation.

Card 2/2

VAYNSHTOK, V.V.; KARTININ, B.N.; KARAKASH, S.I.

Lead soaps as modifiers of the structure of lithium oils. Trudy MINKHiGP no.37:185-199 62.

Grease on a base of lead and aluminum soaps. Ibid.:200-214 (MIRA 17:3)

。 第一个是不是是是一个人的人,但是是一个人的人,他们就是是一个人的人,他们就是一个人的人们,他们们就是一个人的人的人们,他们就是一个人的人的人们就是一个人的人

KARAKASH, Ye.S.

Forecasting ice conditions at the western coast of the middle Caspian. Trudy GOIN no.61:142-152 '61. (MIRA 14:10) (Caspian Sea—Sea ice)

KARAKASH, Ye.S.

Prognosis of ice conditions in the northern part of the Caspian Sea. Trudy GOIN 67:118-131 '62. (MIRA 15:7) (Caspian Sea-Sea ice)

KARAKASH, Ye.S.

Variability of the ice limit in the northern Caspian and the possibility of predicting it. Trudy GOIN no.76880-103 164 (MIRA 18:1)

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720530001-3

TANGET TO BE THE SECOND OF THE POST OF THE

KARAKASH, Ye. S., Cand of Geog Sci -- (diss) "Hydrological navigation conditions, the account and prognosis of the basic hydrological elements of the area of the port of Zhdanov." Moscow, 1957, 8 pp (State Oceanographic Institute; Main Admin of Hydrometeorological Service under Council of Ministers USSR), 100 copies (KL, 33-57, 88)

KARAKASH, Ye,S.

Special features of hydrological regimes as in the example of the Zhdanov Harbor. Trudy COIN no.34:5-72 157. (MIRA 10:9) (Zhdanov region -- Hydrography)

KARAKASH, Yo.S.

Calculating the prenavigational depth of the approaching canal to the Zhdanov Harbor. Trudy COIN no.34:188-197 '57. (MIRA 10:9) (Zhdanov region--Hydrography)

KARAKASH, Ye. S.

Variations in the amount of ice and the position of the edge of ice in the northern Caspian. Trudy GOIN no.54:5-21 160.

(MIRA 14:4)

(Caspian Sea-Ice)

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720530001-3

KARAKASH, Ye.S.

Possibility of predicting the distribution of ice at the western shores of the central Caspian. Trudy GOIN no.71: 96-99 '64. (MIRA 17:10)

### TODOROV, I.; KARAKASHEV, At.

Universal chamber for paper electrophoresis. Suvrem. med., Sofia 7 no.6:78-83 1956.

1. Iz Katedrata po detski bolesti pri VMI - Sofiia (Zav. katedrata: prof. L. Rachev).

(ELECTROPHORESIS, apparatus and instruments, universal chamber for paper electrophoresis (Bul))

# KARAKASHEV , AT TODOROV, I.; KARAKASHEV, At. Filter paper electrophoresis of lipb- and glycoproteins in the blood. Suvrem. med., Sofia 7 no.6:84-88 1956. 1. Iz Katedrata po detski bolesti pri VMI - Sofiia. (Zav. katedrata: Prof. L. Rachev). (BLOOD PROTEINS, determination, glycoproteins, electrophoresis (Bul)) (LIPOPROTEINS, in blood, electrophoresis (Bul))

KAKAK ASHE VIVA

124-58-6-6306D

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 5 (USSR)

AUTHOR: Karakashev, V.A.

TITLE: An Investigation of Ballistic Errors in the Sensor Elements of Gyroscopes Used to Record the Angular Motion of Ships (Issledovaniye ballisticheskikh pogreshnostey chuvstvitel'nykh elementov giroskopicheskikh registratorov kachki korablya)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Leningr. in-t tochnoy mekhan. i optiki (Leningrad Institute of Exact Mechanics and Optics), Leningrad, 1957.

ASSOCIATION: Leningr. in-t tochnoy mekhan. i optiki (Leningrad Institute of Exact Mechanics and Optics), Leningrad.

Card 1/1

1. Gyroscopes--Performance 2. Gyroscopes--Errors

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720530001-3

的一种,我们就是我们的一个,我们就是我们的,我们就是我们的,我们就是这一个,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就会会会一个,他 第一个

KARAKASHEV, V.A., kand.tekhn.nauk

Inertial navigation systems. Izv.vys.ucheb.zav.; prib. no.6: 118-120 '58. (MIRA 12:12)

1. Leningradskiy institut tochnoy mekhaniki i optiki. (Navigation)

KARAKASHEV, V.A., kand. tekhn. nauk

Gyrostabilized platform with the period of natural vibrations T = 84,4 minutes. Izv. vys. ucheb. zav.; prib. no.2:67-75
159. (MIRA 13:2)

l.Leningradskiy institut tonkoy mekhaniki i optiki. Rekomendovana kafedroy gikroskopicheskikh i navigatsionnykh priborov. (Gyroscope--Vibration) (Navigation)

132510

\$/146/60/003/005/006/017 B019/B054

AUTHOR:

Karakashev, V.A.

TITLE:

Effect of the Drift of Gyroscopes on the Motion of a

Gyrostabilized Platform at T = 84.4 Minutes

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye,

1960, Vol. 3, No. 5, pp. 44 - 51

The drift of a gyroscope has a destructive effect on the motion of a stabilized platform, and produces an error in the output signals of the inertial system. These signals are intended for a continuous determination of the coordinates of the object. The author studies the behavior of a gyrostabilized, geographically oriented platform. He obtains an analytical expression which describes the motion of a platform gyrostabilized in three axes, the initial conditions and the angular velocities being considered. He finds the errors for the latitude and longitude determination of an object moving on the earth. The whole investigation is based on the assumption that the gyroscope has no mechanical errors. A discussion of results made it clear that a stabilization of all axes of a platform by two gyroscopes compensates the effect of the components

Effect of the Drift of Gyroscopes on the Motion of a Gyrostabilized Platform at T = 84.4 Minutes

s/146/60/003/005/006/017 B019/B054

of instantaneous angular velocities, and avoids the errors of inertia of the gyroscope. It is necessary to correct the platform in the azimuth, and to correct the inertial system in regular intervals. The publication of this article was recommended by the Kafedra giroskopicheskikh i navigationnykh priborov (Chair of Gyroscopic and Navigation Instruments). There are 2 figures and 3 Soviet references.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: April 25, 1960

Card 2/2

30183

S/146/61/004/005/008/011 D221/D305

13,2500

AUTHOR:

Karakashev, V.A.

TITLE:

On the theory of an inertia system

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priboro-

stroyeniye. v. 4. no. 5. 1961, 94-104

TEXT: The analyzed inertia system is illustrated in Fig.1. The stabilized platform with three axes maintains its position by the "equatorial suspension" and two orthogonally disposed accelerometers Ax and Ay. The maintenance of the accelerometer platform geographical system of coordinates is ensured by sensing systems. Special computer devices eliminate the Coriolis and transfer accelerations from the output signals of the accelerometers which are fed to the inputs of the integrators. A description is given of the sensing loops. Three floating integrating gyroscopes are used as sensing elements of the gyro-stabilized platform. Their kinematic moments are perpendicular to the axes of stabilization, with output

Card 1/6\_

30483 S/146/61/004/005/008/011 D221/D305

On the theory ...

signal distributed by the converter of coordinates between the corresponding servos of the platform. The current latitude and longitude of the object are obtained by special transducers of angles TA  $\varphi$  and TA  $\chi$ . The gyrostabilized platform is related to the coordinate system  $\mathbf{x}_g \mathbf{y}_g \mathbf{z}_g$ , and is designed to hold the supporting system of coordinates,  $\xi_{\eta}\xi_{\eta}$ , stationary with respect to stars. The equations of precession motion of the platform without consideration of friction moments are quoted. The gyroscopic moments due to angular speed of the platform are neglected. The motions of floating gyros in conditions of geometrical stability without regard to time constant or inertia errors in the case of linear transducers of angles are determined by

$$u_{c1} = \frac{k_{c}H}{pk_{T}} \left( \omega_{x_{T}} + \frac{M_{B2}}{H} \right), \quad u_{c2} = \frac{k_{c}H}{pk_{T}} \left( \omega_{y_{T}} - \frac{M_{B1}}{H} \right), \quad u_{c3} = \frac{k_{c}H}{pk_{T}} \left( \omega_{z_{T}} - \frac{M_{B3}}{H} \right)$$
(3)

where kr and kc are the coefficients of damping and of amplifica-

30483 S/146/61/004/005/008/011 D221/D305

On the theory...

tion of the angle transducer;  $M_{\rm Bi}$  are moments at the output axes of the gyros. When the latter have a small drift, then the angular deviation of coordinates  $5\pi$ 5 during large periods of time will be low, and they will be neglected. The assumptions permit the equations of precession motion of the platform to be deduced. As the platform of the accelerometers has two degrees of freedom in relation to the gyro-stabilized platform, then it is necessary to deduce two differential equations for the dynamics of the sensing loops. Fig. 1 reveals that theoutput signals of the secondary integrators fed to servos will in this case act like an undamped pendulum with a period of T=84.4 minutes. After deducing the differential equations, the author provides the expressions for the angles of deviation of the platform in the coordinates  $5 \circ \eta_{\rm o} \circ 0$ . On the assumption that the Coriolis and the transfer acceleration components are eliminated, the approximate accelerations in the case of small speed of the object are given by

 $a_x = pV_2 + pV_1\delta - g\alpha;$   $a_y = pV_1 - pV_2\delta - g\beta.$  (8)

Card 3/5

30183 S/146/61/004/005/008/011 D221/D305

On the theory...

After some mathematical elaborations, the equation of the accelerometer platform is derived. The components of the vector of angular speed in the drift along the axes of geographical coordinates are indicated in a table. In the actual designs use is made of gyroscopes with a small drift speed. To investigate the effect of drift of the gyro-stabilized platform on the motion of the accelerometer platform, as well as on the errors in the output signals of the system it is assumed that the moments vary according to the law  $M_{\rm B1} = a_1 t + a_2; \ M_{\rm B2} = b_1 t + b_2, \ \text{and} \ M_{\rm B5} = c_1 t + c_2. \ \text{The analysis}$  reveals that the motion of the accelerometer platform in the particular case of moments  $M_{\rm Bi}$  has two periods of T = 84.4 and T = 24 hrs. It is assumed that the errors in determining the current coordinates of the object,  $\varphi$  and  $\lambda$  are constant due to the small speed of the latter. The equation quoted indicates that in the simple case, errors increase with time. Finally, the errors in determining latitude and longitude of the object are considered. A set of equations is derived which reveal that minimum errors in measuring latitude

Card 4/65

30483

S/146/61/004/005/008/011 D221/D505

On the theory...

and longitude for the accepted law of moment variation take place when there is a constant drift of gyroscopes. This leads to a conclusion that the investigated system can operate without additional correction only within relatively short periods of time. This article was recommended by the Kafedra giroskopicheskikh i navigatsion-nykh priborov (Department of Gyroscopic and Navigational Instruments). There are 3 figures, 2 tables and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: I.M. Slater and D.B. Duncan Inertial navigation, v. 15, no. 1, 1956.

ASSOCIATION:

Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and

Optics)

SUBMITTED:

January 26, 1961

Card 5/65

#### KARAKASHEV, V.A.

Alignment of a gyrostabilized platform of an inertial horizon system. Izv. vys. ucheb. zav.; prib. 7 no.1:103-110 '64. (MIRA 17:9)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekomendovana kafedroy giroskopicheskikh i navigatsionnykh priborov.

ACCESSION NR: AP4019001

\$/0146/64/007/001/0103/0110

AUTHOR: Karakashev, V. A.

TITLE: Alignment of the stabilized platform of a horizon inertial system

SOURCE: IVUZ. Priborostroyeniye, v. 7, no. 1, 1964, 103-110

TOPIC TAGS: stabilized platform, gyrostabilized platform, gyrostabilized platform alignment, inertial navigational system, initial platform alignment, three axis stabilized platform

ABSTRACT: A precession theory of the automatic orientation of a three-axis stabilized platform in a geographical coordinate system is set forth. The inertial system examined in the article differs from those recently published elsewhere in the scheme of its computing device. This scheme imparts a gyrocompass effect which ensures an automatic initial alignment of the platform at the point of departure. Equations describing the motion of the stabilized platform on a

Card 1/2

ACCESSION NR: AP4019001

stationary base are set up, as well as the equations for integrator output errors that depend on some instrument errors. It is claimed that a suitable selection of the system parameters will bring about an alignment of the stabilized platform with an accuracy determined by the instrument errors in a short time in moderate latitudes. Orig. art. has: 2 figures and 20 formulas.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Fine Mechanics and Optics)

SUBMITTED: 21Mar63

DATE ACQ: 23Mar64

ENCL: 00

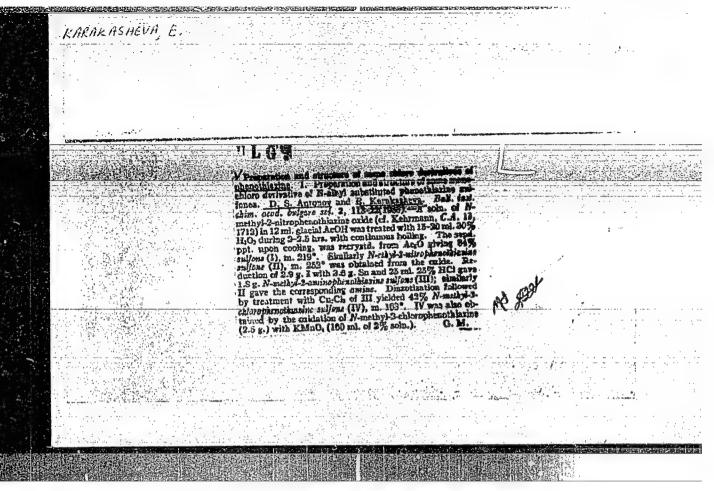
SUB CODE: AE, CG NO REF SOV: 001

OTHER: 004

SADYKH-ZADE, E.S.; ISMAILOV, D.Kh.; KARAKASHEV, V.K.

Effect of methods for condensation on the drop in reservoir pressure. Izv. vys. ucheb. zav.; neft' i gaz. 8 no.5:43-46 '65. (MIRA 18:7)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova i Azerbaydzhanskiy nauchno-issledovatellekiv institut po dobyche nefti



KAKHKHSHEVILTI.

YUGOSLOVIA/ Microbiology. General Microbiology F-1

Abs Jour: Ref Zhur - Biol., No 6, 1958, 24054

Author : Karakashevich, Gazikalovich

Inst : Not given

Title : Use of Phosphatase Test for Differentiation Be-

tween Micrococcus Pyogenes and Non-Pathogenic

Species of Micrococci.

Orig Pub: Higijena, 1956, 8, No 4, 233-239

Abstract: No abstract.

Card 1/1

# APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720530001-3" KARAKASHIY, K.T.; ARASIY, G.M., red.

[Material culture of the Azerbaijani of the northeastern and central zones of the Lesser Caucasus; an historical and ethnographical study] Material naia kultura azerbaidzhantsev Severo-vostochnoi i TSentral noi zon Malogo Kavkaza; istoriko-etnograficheskoe issledovanie. Baku, Izd-vo AN Azerbaidzhan. SSR, 1964. 282 p. (MIRA 18:5)

KARAKASHLY, N., inzh.; SHKLYARUK, A.

A small seagoing tug. Mor. flot 25 no.10:37-38 0 '65. (MIRA 18:11)

KARAKASHLY, N., inzh.; SHKLYARUK, A., inzh.

Transportation of the rolling stock of railroads on the lighter "Ishimbay." Mor. flot 25 no.7:9-10 J1 '65. (MIRA 18:7)

KARAKASHLY, Z. K.

Dissertation: "Experimental Observations on the Relation of the Course of Certain Immunological Phenomena to the Initial Reactivity of the Organism." Cand Med Sci, Azerbaydzhan State Medical Inst, 24 Jun 54. (Bakinskiy Rabochiy, Baku, 15 Jun 54).

SO: SUM 318, 23 Dec. 1954

VICHEV, Ye.P.; KARAKASHOV, A.V.

Micromethod for the direct complexometric titration of calcium in blood serum. Vop.med.khim. 6 no.4:435-438 J1-Ag '60. (MIRA 14:3)

1. Research Institute for the Protection of Maternity and Infancy, Sofiya.

(CALCIUM—ANALYSIS)
(BLOOD—ANALYSIS AND CHEMISTRY)

是是是这种性的,这种是是是这种的人,但是是是这种的人,也是这个人,我们就是这种的人,我们就是这种的人,也是这种的人,也是这种的人,也是这种的人,也是这种人,也是 "我们是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人

- 1. KARAKASHYAN, A. A., Eng.
- 2. USSR (600)
- 4. Kilns, Rotary
- 7. Experience with lining newly installed, powerful rotary kilns. TSement No. 6 1952

9. Monthly List of Russian Accessions, Library of Congress, \_\_\_\_\_April\_\_\_1953, Uncl.

是**是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,不** 

VARTAHOV, V.M., ingh.; KARAKASHYAN, A.A., ingh.; MILOVANOV, A.F., kand.tekhn.nauk

Chimney built of precast prestressed reinforced refractory concrete. Nov.tekh.mont. i spets.rab. v stroi. 21 no.4:9-11 Ap 159. (MIRA 12:5)

1. Trest Teplomontash Ministerstva stroitel'stva RSFSR i Laboratoriya zharoupornykh konstruktsiy Instituta betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR. (Chimneys) (Precast concrete construction)

KARAKASHYAN, A.A., inzh.; EYDINOV, Yu.S., inzh., red.

[Precast reinforced concrete smokestacks] Sbornaia zhelezobetonnaia predvaritel'no napriazhennaia dymovaia truba; iz opyta tresta "Teplomontazh," Ministerstva stroitel'stva RSFSR. Moskva, Gosstroiizdat, 1963. 21 p. (MIRA 16:9)

l. Akademiya stroitel'stva i arkhitektury SSSR, Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Upravlyayushchiy trestom "Teplomontash" Ministerstva stroitel'stva RSFSR (for Karakashyan).

(Precast concrete construction) (Chimneys)

的复数工程和国际的发生的企业的关于对于对对对外的规则正式中心主义的实际,但这个专种的关系的工程的通过,他的政策的现在分词不是不是不同的一个人,不

KARAKASHYAN, A.A., inzh.; KARPUSHIN, I.A.; KUZ'MINOV, I.T., kand.tekhn.nsuk

Method of calculating labor productivity in a thermal-electric power station construction trust. Mont.i spets.rab.v stroi. 23 no.6:20-22 Je \*61. (MIRA 14:7)

1 1 Sept 1 6

1. Trest Teplomontanh i Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti. (Labor productivity) (Electric power-plants)

SOV /124-58-7-7403

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 12 (USSR)

AUTHORS: Karakash'van. Z.O. Zaven Orgnezouich

等,不是是一个人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,不是一个人的人,也就是

The Theory of the Operation of Type SA-3 Automatic Couplers TITLE: (Teoriya raboty mekhanizmov avtostsepok tipa SA-3)

PERIODICAL: Tr. Mosk. in-ta inzh. zh.-d. transp., 1957, Nr 98, 167 pages, ill.

ABSTRACT: A study is made of the causes of and means for eliminating two important defects in type SA-3 automatic couplers, namely, that of unintended uncoupling and that of premature closure. The latter defect consists in the fact that the counterweight to the pin-holder springs up too soon and blocks the path of the dog (detent). Section I of the article brings out the characteristic elements of the automatic-coupling mechanism, the mutual arrangement of which may contribute to the above-mentioned defects. Considered too is the matter of clearance, the sizes of which also exert an important influence. Section II deals with the dynamics of the operation of the automaticcoupling device while a train is in motion, and the conclusions Card 1/2 reached lead to recommendations as to a selection of

SOV /124-58-7-7403

The Theory of the Operation of Type SA-3 Automatic Couplers

clearances that will eliminate premature uncoupling. Section III sets forth the conditions under which premature closure will be eliminated. Sections IV and V deal with the dynamics of the coupling process, the study of which calls for the setting up and solving of a system of nonlinear differential equations. In the setting up of these equations certain simplifying assumptions are adopted, and the approximate integration is done both by the Picard method and by that of expansion into a power series. Both methods yielded a satisfactory agreement of the final results. In Section VI, on the basis of the preceding material, an analysis is made of the problem of how to prevent closure during attempted coupling. Section VII concludes the article with summary observations on the choice of optimum automatic-coupling parameters. The theory propounded by the author with reference to the SA-3 type automatic couplers can, in its general outlines, be applied to the design of automatic couplers of other types also.

S.G. Kislitsyn

1. Railroad car couplings--Theory 2. Railroad car couplings--Effectiveness

Card 2/2

POLYAKOV, P.V., insh.; KARAKAY, P.A., insh.; SERGIYERKO, N.M.

Automatic regulator for the feeding of a screw press. Masl.-zhir. prom. 26 no.10:32-34 0 160. (MIRA 13:10)

- 1. Vsesoyuznyy nauchno-issledovatel skiy institut zhirov (for Polyakov).
- 2. Krasnodarskiy masloshirovoy kombinat (for Karakay, Sergiyenko).
  (Power presses) (Automatic control)

KARAKAY, P.A., inzh.; SERGIYENKO, N.M.

Remote measurement of a level in open tanks. Masl.-zhir.prom. 28 no.7:40-41 Jl '62. (MIRA 15:11)

THE RESERVE OF THE PROPERTY OF THE STATE OF

Krasnodarskiy maslozhirovoy kombinat imeni
 V.V. Kuybysheva.

(Krasnodarsk--Oils and fats--Storage)
(Liquid level indicators)

#### KARAKAY, P.A., inzh.

Automatic pressure control of the composition. Masl.-zhir.prom. 28 no.12:32 D '62. (MIRA 16:1)

1. Krasnodarskiy maslozhirovoy kombinat imeni V.V.Kuybysneva.
(Pressure regulators) (Automatic control)

ACCESSION NR: AP4044391

\$/0195/64/005/004/0742/0745

AUTHOR: Karakchiyev, L. G.

TITLE: Nature of aluminosilicate catalysts

SOURCE: Kinetika i kataliz, v. 5, no. 4, 1964, 742-745

TOPIC TAGS: aluminosilicate, catalysis, X-ray analysis, infrared spectrum, thermography, montmorillonite, mullite, aluminum oxide, crystallization

ABSTRACT: The relationship between the structure of aluminosilicate catalysts and their composition was investigated by infrared spectroscopy, X-ray analysis and thermography of samples with Al<sub>2</sub>O<sub>3</sub>: SiO<sub>2</sub> ratios varying from 5:95 to 90:10. Aluminosilicate with a high aluminum oxide content (75-90% Al<sub>2</sub>O<sub>3</sub>) shows four lowintensity, blurred rings belonging to the free phase Y-Al<sub>2</sub>O<sub>3</sub> in addition to the wide diffusion of the ring due to the amorphous phase. An increase in the annealing temperature to 650C (4 hours) leads to a further crystallization of the free planar spacings of the crystalline phase are tabulated. The spectra showed that in lonite, but, in contrast to other tested samples, the catalyst with 25% Al<sub>2</sub>O<sub>3</sub> concatalized a large amount of Na (about 0.5%). Comparison with different samples shows

# ACCESSION NR: AP4044391

that the presence of sodium in aluminosilicate catalysts catalyzes the crystallization of the phase similar to montmorillonite. The absorption spectra of Y-Al<sub>2</sub>0<sub>3</sub> show two wide bands at 500-650 and 700-900 cm<sup>-1</sup> while the spectra of SiG<sub>2</sub> show of the silicate spectra to shift toward the long-wave region. Part of the aluminum oxide enters the silicate skeleton not as a "free" oxide, but by reacting with it and depolymerizing the skeleton. With increasing aluminum oxide content, the oxydecreases. Thermograms of Al<sub>2</sub>0<sub>3</sub> catalysts, boehmite and silica gel are shown. Boehmite is converted to Y-Al<sub>2</sub>0<sub>3</sub> by heating and loses its water of crystallization only one endothermic effects at 110, 290 and 395 c). On heating silicagel, only one endothermic effect is obtained at 110c. During the preparation of the investigated catalysts, amorphous aluminosilicate structures are formed in which the homogeneity of the gel is destroyed: aluminum hydroxide is formed, which is the homogeneity of the gel is destroyed: aluminum hydroxide is formed, which is the SiO<sub>1</sub> tetrahedra of the silicate skeleton in the catalysts with low aluminum ordination. However, in samples with still higher aluminum oxide content (75-90% Al<sub>2</sub>0<sub>3</sub>), the nature of the depolymerization of the silicate skeleton is different.

CCESSION NR: AP4044391			; ;
During the annealing of aluminosilica catalysts up to 950C, the formation of mullite can be found only in samples containing 20-25% Al <sub>2</sub> O <sub>3</sub> . "The authors express their gratitude to V. A. Dzis'ko, H. S. Borisova and A. D. Makarov for discussion of the results, to N. V. Akimova for the preparation of the samples, and to L. A. Plyasova and L. A. Khripin for making the Debye diagrams and the thermograms of the catalyst samples." Orig. art. has: I figure and 2 tables.			
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EWT(1)/EWT(m)/EWP(1) SOURCE CODE: UR/0195/65/006/005/0904/0908 ACC NR: AP5026477 AUTHOR: Karakchiyev, L. G ORG: Institute of Catalysis, SO AN SSSR (Institut kataliza SO AN SSSR TITLE: Structure of silicon dioxide-titanium dioxide catalysts v. 6, no. 5, 1965, 904-908 SOURCE: Kinetika i kataliz, TOPIC TAGS: silicon dioxide, titanium oxide, silicate, deuterium oxide, crystal structure ABSTRACT: The structure of SiO2-TiO2 catalysts was studied by x-ray analysis, IR spectroscopy, and thermography. The adsorption of D2O was used to study the bonds formed. It is found that the SiO2-TiO2 catalysts are amorphous to x-rays and consist of SiO4 and TiO4 tetrahedra. The maximum substitution of titanium atoms for silicon in the silicate structure occurs at 25 - 50% TiO2 in the catalyst. As the TiO2 content increases further, a free titanium dioxide phase (anatase) is formed in the samples. Depolymerization of the silicate framework takes place as a result of interstital four-coordinated titanium and reaches saturation at a content of 25 -50% TiO2 in the catalyst. No defects UDC 546, 284'824-31-44 Cord 1/2